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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/737,219	12/14/200	00	Michael H. Myers	20-0153	1360
27160	7590 05	5/27/2004		EXAM	INER
PATENT ADMINSTRATOR				TRAN, KHAI	
KATTEN MUCHIN ZAVIS ROSENMAN 525 WEST MONROE STREET SUITE 1600				ART UNIT	PAPER NUMBER
				2631	6
CHICAGO, IL 60661-3693				DATE MAILED: 05/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/737,219	MYERS, MICHAEL H.					
Office Action Summary	Examiner	Art Unit					
	KHAI TRAN	2631					
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet v	vith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic  - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of the period will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).					
Status		•					
1) Responsive to communication(s) filed on	08 March 2004.	·					
2a)⊠ This action is <b>FINAL</b> . 2b)□							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 6-11 is/are allowed.  6) ☐ Claim(s) 1-5 and 12 is/are rejected.  7) ☐ Claim(s) 13-14 is/are objected to.  8) ☐ Claim(s) are subject to restriction as	hdrawn from consideration.						
Application Papers							
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to	accepted or b) objected to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the control of the control	·	• •					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in a priority documents have beer ureau (PCT Rule 17.2(a)).	Application No  received in this National Stage					
Attachment(s)	_	•					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-9483)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date</li> </ol>	B) Paper No	Summary (PTO-413) s)/Mail Date Informal Patent Application (PTO-152)					

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### **DETAILED ACTION**

1. The amendment A filed 3/08/04 has been entered. Claims 1-14 are pending in this Office action.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-5, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Limberg (U.S. Pat. 6,496,229)

Regarding claims 1-5, Limberg discloses a system for compensating for phase error in the real and quadrature channels of a modulation system comprising: an I input channel for receiving the real (I) components for a carrier signal; a Q input channel for receiving the quadrature (Q) components for a carrier signal; a compensation circuit for compensating one or the other of the I channel and Q channel signals by multiplying the I channel and Q channel signals together to develop a first product signal and averaging the product signal to generate a compensated channel signal (col. 6, line 38, to col. 7, line 15, i.e., the in-phase (I) and the quadrature-phase (Q) baseband signals are multiplied together; and the product of the I and Q is averaged over time in the AFPC

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low pass filter (31)); in Figure 1 shows that the LPF (31) filters the output of the AFPC detector 34 for generating a compensated channel signal.

Claim 12 is similar to claim 1. Therefore, claim 12 is rejected under a similar rationale.

## Response to Arguments

4. Applicant's arguments filed 3/08/04 have been fully considered but they are not persuasive.

The Examiner's response about the compensating channel signal has been addressed in the paragraph 2 above.

## Allowable Subject Matter

- 5. Claims 6-11 are allowed.
- 6. Claims 13-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: Limberg fails to disclose the system for compensating for phase errors of the phase modulation system comprising: a second multiplier for multiplying the I channel signal by a predetermined constant to definite a second product signal; and further a third multiplier for multiplying the first ands second product signals to generate a third product signal; and further subtracting the second product signal from the Q channel signal as recited in claims 6-11, and 13-14.

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### Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (703) 305-1876. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammed Ghayour can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHAI TRAN

Primary Examiner

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KT May 25, 2004